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Dipkumar Patel

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Links

Github:// **immortal3**
CodeChef:// **immortal3**
Highest Rating 2000+

Education

Ahmedabad University
B.Tech in ICT
2015-2019
CGPA: 3.66/4.33

Coursework

Coursera
Deep Learning Specialization (all 5 courses)

Undergraduate
Machine Learning
Computer Vision
Introduction to Blockchain
Cloud Computing
High Performance Computing
Information System Security

Skills

Programming
• Python, C/C++, JavaScript, Java, Sql

Libraries
• Pytorch, Opencv, Keras, Tensorflow, Pandas, Sklearn

Software
• git, MATLAB, Xilinx ISE

Platform
• Linux, Window

Achievement

Winner of Ingenious Hackathon 2017
• Created Application in 24-hour which can detect user's different hand gestures.

Experience

Fero.AI | Machine Learning Consultant
Sep 2019 - Present | Ahmedabad, India
• Building Machine Learning solutions for the Fero.ai ecosystem
• Worked on Semantic Segmentation, Image Stitching, Speech Recognition, Rate Prediction
• Pytorch, Opencv, Django, Python

Fero.AI | Machine Learning Intern
Jan 2019 - May 2019 | Ahmedabad, India
Reverse Video Search Engine (Undergrad Capstone Project)
• Searching Near-duplicate video in a massive database of videos. Project was focused on providing a portal for reverse video-search.
• Improved both signature extraction from video and retrieval of similar signature. Used Postgresql (CUBE Extension) for storing signatures/features.

Fusion Informatics | Computer Vision Intern
May 2018 - June 2018 | Ahmedabad, India
Artificial Intelligence driven CCTV surveillance
• Created CCTV surveillance software for classification and localization of human with a weapon(knife and pistol), fire, and smoke.
• Other features include identifying previously detected human with a weapon, support for multiple cameras including IP cameras and email alerts.

Publication

• Raj Dhamsaniya, Dipkumar and Harshkumar Patel. **MMPL (Medicine Multi-Participant Ledger) at International Workshop on Blockchain Technologies (IWBT 2018), NIT Warangal. (Accepted)**

Projects

Image Saliency Detection | link
• As Human, We only focus on certain part of image which is called salient region. This project tries to emulate human visual perception by predicting Saliency map of given image.

Autoencoder Based Communication System | link
• Implementation of novel deep learning based end-to-end communication system which can outperform state-of-the-art modulation Schemes.
• Autoencoder is used to remove noise from communication channel through end-to-end learning.

Binary Gender Classification from Facial Image | live demo
• Classification of the gender from facial image of person. Implemented compact CNN and gained F1-score of 0.94 with real-time performance.
• Client-side deployed using Tensorflow.js.

File System (EbFs) | link
• Created portable and secure hierarchical File System from scratch. EbFs is inspired by ext2fs (Linux file system) which used inode for storing meta-data.